

US-PAT-NO: 4208090  
DOCUMENT-IDENTIFIER: US 4208090 A  
TITLE: Reflector structure  
DATE-ISSUED: June 17, 1980

US-CL-CURRENT: 359/514, 359/531 , 359/532 , 404/14

APPL-NO: 05/ 753132

DATE FILED: December 22, 1976

PARENT-CASE:

This is a continuation of application Ser. No. 625,723, filed Mar. 24, 1967, now abandoned.

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Claims Text - CLTX (6):

6. A reflector structure for reflecting light back toward the source thereof, said reflector structure comprising a one-piece body of transparent material having a substantially smooth light receiving front face, said body having therein a plurality of rectangular recesses extending from the rear thereof toward said front face and each defining a rectangular cell surrounded by a support wall, the rear faces of said support walls defining a substantially continuous support surface extending substantially through-out the rear of said body, and a plurality of rectangular retrodirective cube corner reflector elements on said body in said recesses and oriented therein to reflect light falling upon said front face, said reflector elements reflecting from said reflector structure light falling upon said front face in the area thereof corresponding to said cells and reflecting the light back toward the source thereof to render said reflector structure highly visible at night.

Claims Text - CLTX (8):

8. A reflector structure for reflecting light back toward the

source  
thereof, said reflector structure comprising a one-piece body of  
transparent  
material having a substantially smooth light receiving front face, said  
body  
having therein a plurality of rectangular recesses extending from the  
rear  
thereof toward said front face and each defining a cell surrounded by a  
support  
wall, the rear faces of said support walls defining a substantially  
continuous  
support surface extending substantially throughout the rear of said  
body, a  
plurality of rectangular retrodirective cube corner reflector elements  
on said  
body in said recesses and oriented therein to reflect light falling  
upon said  
front face, said reflector elements reflecting from said reflector  
structure  
light falling upon said front face in the area thereof corresponding to  
said  
cells and reflecting the light back toward the source thereof to render  
said  
reflector structure highly visible at night, and a backing member  
covering  
substantially all of the rear of said body and hermetically sealed to  
said  
support surface along all portions thereof thus hermetically to seal  
each of  
said cells.